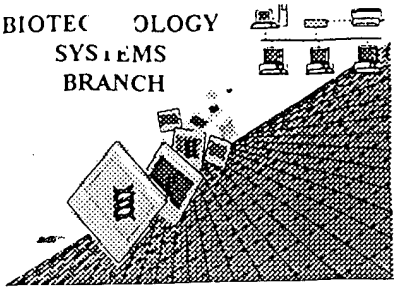
BIOTEC OLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/529,043

Source: 1652

Date Processed by STIC: 6-12-01

RECEIVED
JUL 0 9 2001
TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).
Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

#7 wrong 1652

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/529,043

DATE: 06/12/2001
TIME: 12:27:43

Does Not Comply
Corrected Diskette Needed

Input Set : A:\Lestxt-1
Output Set: N:\CRF3\06122001\I529043.raw

SEQUENCE LISTING

(1) GENERAL INFORMATION:
E--> (i) APPLICANT:
(ii) TITLE OF INVENTION: METHOD FOR MICROBIAL PRODUCTION OF AMINO ACIDS OF THE ASPARTATE AND/OR GLUTAMATE FAMILY
E--> (iii) NUMBER OF SEQUENCES: 2
E--> (iv) CORRESPONDENCE ADDRESS:
(C) CITY: Juelich
(E) COUNTRY: GERMANY
C--> (F) ZIP: 52425
C--> (v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPA)
C--> (vi) CURRENT APPLICATION DATA:
C--> (A) APPLICATION NUMBER: US/09/529,043
C--> (B) FILING DATE: 03-Apr-2000
C--> (viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: Forschungszentrum Juelich GmbH
(B) ADDRESS: Postfach 1913

EPO format not valid with U.S. applications.
See p. 5

ERRORED SEQUENCES

E--> (2) SEQ ID NO: 1: → Incorrect format
E--> (2) INFORMATION FOR SEQ ID NO: 1: → Correct format
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 3728 Base Pairs
C--> (B) TYPE: Nucleotide
C--> (C) STRANDEDNESS: Single strand
(D) TOPOLOGY: linear
C--> (ii) MOLECULE TYPE: Genomic DNA
(D) DEVELOPMENTAL STAGE: 1:
E--> (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: → Correct format.

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CGCAACCGTG CTTGAAGTCG TGCAGGTCAG GGGAGTGTTG CCCGAAAACA TTGAGAGGAA      60
AACAAAAACC GATGTTTGAT TGGGGGAATC GGGGGTTACG ATACTAGGAC GCAGTGACTG     120
CTATCACCCT TGGCGGTCTC TTGTTGAAAG GAATAATTAC TCTAGTGTCG ACTCACACAT     180
CTTCAACGCT TCCAGCATTC AAAAAGATCT TGGTAGCAAA CCGCGGCGAA ATCGCGGTCC     240
GTGCTTTCCG TGCAGCACTC GAAACCGGTG CAGCCACGGT AGCTATTTAC CCCCGTGAAG     300
ATCGGGGATC ATTCCACCGC TCTTTTGCTT CTGAAGCTGT CCGCATTGGT ACCGAAGGCT     360
CACCAGTCAA GGCGTACCTG GACATCGATG AAATTATCGG TGCAGCTAAA AAAGTTAAAG     420
CAGATGCCAT TTACCCGGGA TACGGCTTCC TGTCTGAAAA TGCCCAGCTT GCCCGCGAGT     480
GTGCGGAAAA CGGCATTACT TTTATTGGCC CAACCCCAGA GGTTCTTGAT CTCACCGGTG     540
ATAAGTCTCG CGCGGTAACC GCCGCGAAGA AGGCTGGTCT GCCAGTTTTG GCGGAATCCA     600
CCCCGAGCAA AAACATCGAT GAGATCGTTA AAAGCGCTGA AGGCCAGACT TACCCCATCT     660
TTGTGAAGGC AGTTGCCGGT GGTGGCGGAC GCGGTATGCG TTTTGTTGCT TCACCTGATG     720
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/529,043

DATE: 06/12/2001
TIME: 12:27:43

Input Set : A:\Lestxt~1
Output Set: N:\CRF3\06122001\I529043.raw

64 AGCTTCGCAA ATTAGCAACA GAAGCATCTC GTGAAGCTGA AGCGGCTTTC GGCGATGGCG 780
66 CGGTATATGT CGAACGTGCT GTGATTAACC CTCAGCATAT TGAAGTGCAG ATCCTTGGCG 840
68 ATCACACTGG AGAAGTTGTA CACCTTTATG AACGTGACTG CTCACTGCAG CGTCGTCACC 900
70 AAAAAGTTGT CGAAATTGCG CCAGCACAGC ATTTGGATCC AGAACTGCGT GATCGCATTT 960
72 GTGCGGATGC AGTAAAGTTC TGCCGCTCCA TTGGTTACCA GGGCGCGGGA ACCGTGGAAT 1020
74 TCTTGGTCGA TGAAAAGGGC AACCACGTCT TCATCGAAAT GAACCCACGT ATCCAGGTTG 1080
76 AGCACACCGT GACTGAAGAA GTCACCGAGG TGGACCTGGT GAAGGCGCAG ATGCGCTTGG 1140
78 CTGCTGGTGC AACCTTGAAG GAATTGGGTC TGACCCAAGA TAAGATCAAG ACCCACGGTG 1200
80 CAGCACTGCA GTGCCGCATC ACCACGGAAG ATCCAAACAA CGGCTTCCGC CCAGATACCG 1260
82 GAACTATCAC CGCGTACCGC TCACCAGGCG GAGCTGGCGT TCGTCTTGAC GGTGCAGCTC 1320
84 AGCTCGGTGG CGAAATCACC GCACACTTTG ACTCCATGCT GGTGAAAATG ACCTGCCGTG 1380
86 GTTCCGACTT TGAAACTGCT GTTGCTCGTG CACAGCGCGC GTTGGCTGAG TTCACCGTGT 1440
88 CTGGTGTTGC AACCAACATT GGTTTCTTGC GTGCGTTGCT GCGGGAAGAG GACTTCACTT 1500
90 CCAAGCGCAT CGCCACCGGA TTCATTGCCG ATCACCCGCA CCTCCTTCAG GCTCCACCTG 1560
92 CTGATGATGA GCAGGGACGC ATCCTGGATT ACTTGGCAGA TGTCACCGTG AACAAGCCTC 1620
94 ATGGTGTGCG TCCAAAGGAT GTTGCAGCTC CTATCGATAA GCTGCCTAAC ATCAAGGATC 1680
96 TGCCACTGCC ACGCGGTTCC CGTGACCGCC TGAAGCAGCT TGGCCCAGCC GCGTTTGCTC 1740
98 GTGATCTCCG TGAGCAGGAC GCACTGGCAG TTACTGATAC CACCTTCCGC GATGCACACC 1800
100 AGTCTTTGCT TGCGACCCGA GTCCGCTCAT TCGCACTGAA GCCTGCGGCA GAGGCCGTCG 1860
102 CAAAGCTGAC TCCTGAGCTT TTGTCCGTGG AGGCCTGGGG CGGCGCGACC TACGATGTGG 1920
104 CGATGCGTTT CCTCTTTGAG GATCCGTGGG ACAGGCTCGA CGAGCTGCGC GAGGCGATGC 1980
106 CGAATGTAAA CATTCAGATG CTGCTTCGCG GCCGCAACAC CGTGGGATAC ACCCCGTACC 2040
108 CAGACTCCGT CTGCCGCGCG TTTGTTAAGG AAGCTGCCAG CTCCGGCGTG GACATCTTCC 2100
110 GCATCTTCGA CGCGCTTAAC GACGTCTCCC AGATGCGTCC AGCAATCGAC GCAGTCCTGG 2160
112 AGACCAACAC CGCGGTAGCC GAGGTGGCTA TGGCTTATTC TGGTGATCTC TCTGATCCAA 2220
114 ATGAAAAGCT CTACACCCTG GATTACTACC TAAAGATGGC AGAGGAGATC GTCAAGTCTG 2280
116 GCGCTCACAT CTTGGCCATT AAGGATATGG CTGGTCTGCT TCGCCCAGCT GCGGTAACCA 2340
118 AGCTGGTCAC CGCACTGCGC CGTGAATTCG ATCTGCCAGT GCACGTGCAC ACCCACGACA 2400
120 CTGCGGGTGG CCAGCTGGCA ACCTACTTTG CTGCAGCTCA AGCTGGTGCA GATGCTGTTG 2460
122 ACGGTGCTTC CGCACCACTG TCTGGCACCA CCTCCCAGCC ATCCCTGTCT GCCATTGTTG 2520
124 CTGCATTCGC GCACACCCGT CGCGATACCG GTTTGAGCCT CGAGGCTGTT TCTGACCTCG 2580
126 AGCCGTACTG GGAAGCAGTG CGCGGACTGT ACCTGCCATT TGAGTCTGGA ACCCCAGGCC 2640
128 CAACCGGTCG CGTCTACCGC CACGAAATCC CAGGCGGACA GTTGTCCAAC CTGCGTGCAC 2700
130 AGGCCACCGC ACTGGGCCTT GCGGATCGTT TCGAACTCAT CGAAGACAAC TACGCAGCCG 2760
132 TTAATGAGAT GCTGGGACGC CCAACCAAGG TCACCCCATC CTCCAAGGTT GTTGGCGACC 2820
134 TCGCACTCCA CCTCGTTGGT GCGGGTGTGG ATCCAGCAGA CTTTGCTGCC GATCCACAAA 2880
136 AGTACGACAT CCCAGACTCT GTCATCGCGT TCCTGCGCGG CGAGCTTGGT AACCCTCCAG 2940
138 GTGGCTGGCC AGAGCCACTG CGCACCCGCG CACTGGAAGG CCGCTCCGAA GGCAAGGCAC 3000
140 CTCTGACGGA AGTTCCTGAG GAAGAGCAGG CGCACCTCGA CGCTGATGAT TCCAAGGAAC 3060
142 GTCGCAATAG CCTCAACCGC CTGCTGTTCC CGAAGCCAAC CGAAGAGTTC CTCGAGCACC 3120
144 GTCGCCGCTT CGGCAACACC TCTGCGCTGG ATGATCGTGA ATTCTTCTAC GGCCTGGTCG 3180
146 AAGGCCGCGA GACTTTGATC CGCCTGCCAG ATGTGCGCAC CCCACTGCTT GTTCGCCTGG 3240
148 ATGCGATCTC TGAGCCAGAC GATAAGGGTA TGCGCAATGT TGTGGCCAAC GTCAACGGCC 3300
150 AGATCCGCCC AATGCGTGTG CGTGACCGCT CCGTTGAGTC TGTCACCGCA ACCGCAGAAA 3360
152 AGGCAGATTC CTCCAACAAG GGCCATGTTG CTGCACCATT CGCTGGTGTT GTCACCGTGA 3420
154 CTGTTGCTGA AGGTGATGAG GTCAAGGCTG GAGATGCAGT CGCAATCATC GAGGCTATGA 3480
156 AGATGGAAGC AACAATCACT GCTTCTGTTG ACGGCAAAAT CGATCGCGTT GTGGTTCCTG 3540
158 CTGCAACGAA GGTGGAAGGT GGCGACTTGA TCGTCGTCGT TTCCTAAACC TTTCTGTAAA 3600
160 AAGCCCCGCG TCTTCCTCAT GGAGGAGGCG GGGCTTTTTG GGCCAAGATG GGAGATGGGT 3660

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/529,043

DATE: 06/12/2001
TIME: 12:27:43

Input Set : A:\Lestxt-1
Output Set: N:\CRF3\06122001\I529043.raw

162 GAGTTGGATT TGGTCTGATT CGACACTTTT AAGGGCAGAG ATTTGAAGAT GGAGACCAAG 3720
164 GCTCAAAG 3728

E--> 166 (2) SEQ ID NO: 2:

See page 4

(2) SEQ ID NO: 2: → (2) Information for Seq ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 1140 Amino Acids
(B) TYPE: Amino Acid
(C) STRANDEDNESS: Single Strand
(D) TOPOLOGY: linear

(ii) TYPE OF MOLECULE: Protein

(xi) SEQ ID NO: 2: → (xi) Sequence Description: Seq. ID: 2:

Met	Ser	Thr	His	Thr	Ser	Ser	Thr	Leu	Pro	Ala	Phe	Lys	Lys	Ile	Leu
1				5					10					15	

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: ← move to same line.
(A) NAME: Forschungszentrum Juelich GmbH
~~(B) ADDRESS: Postfach 1913~~
~~(C) CITY: Juelich~~
~~(E) COUNTRY: GERMANY~~
~~(F) ZIP CODE: 52425~~
(IV)

(ii) TITLE OF INVENTION: METHOD FOR MICROBIAL PRODUCTION OF AMINO ACIDS OF THE ASPARTATE AND/OR GLUTAMATE FAMILY

(iii) NUMBER OF SEQUENCES: 2

~~(iv)~~ (V) COMPUTER-READABLE FORM:
(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPA)

Correct U.S. format →

(1) GENERAL INFORMATION:
(i) APPLICANT:
(ii) TITLE OF INVENTION:
(iii) NUMBER OF SEQUENCES:
(iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE:
(B) STREET:
(C) CITY:
(D) STATE:
(E) COUNTRY:
(F) ZIP:
(v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE:
(B) COMPUTER:
(C) OPERATING SYSTEM:
(D) SOFTWARE:
(vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER:
(B) FILING DATE:
(C) CLASSIFICATION:
(vii) PRIOR APPLICATION DATA
(A) APPLICATION NUMBER:
(B) FILING DATE:
(viii) ATTORNEY/AGENT INFORMATION:
(A) NAME:
(B) REGISTRATION NUMBER:
(C) REFERENCE/DOCKET NUMBER:
(ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE:
(B) TELEFAX:
(C) TELEX:

VERIFICATION SUMMARY DATE: 06/12/2001
PATENT APPLICATION: **US/09/529,043** TIME: 12:27:44

Input Set : **A:\Lestxt~1**
Output Set: **N:\CRF3\06122001\I529043.raw**

L:11 M:220 C: Keyword misspelled or invalid format, [(F) ZIP:]
L:18 M:220 C: Keyword misspelled or invalid format, [(v) COMPUTER READABLE FORM:]
L:6 M:200 E: Mandatory Header Field missing, [(i) APPLICANT:] of (1) Value not provided
L:0 M:200 E: Mandatory Header Field missing, [(A) ADDRESSEE:] of (1)(iv)
L:0 M:200 E: Mandatory Header Field missing, [(B) STREET:] of (1)(iv)
L:0 M:248 E: Inserted missing Mandatory Header Field, [(iv) CORRESPONDENCE ADDRESS:]
L:0 M:247 C: Inserted Optional Header Field, [(viii) ATTORNEY/AGENT INFORMATION:]
L:0 M:249 C: Inserted Mandatory Field, [(vi) CURRENT APPLICATION DATA:]
L:0 M:249 C: Inserted Mandatory Field, [(A) APPLICATION NUMBER:]
L:0 M:249 C: Inserted Mandatory Field, [(B) FILING DATE:]
L:25 M:243 E: Alpha Header Field expected, Data=[(2) SEQ ID NO: 1:], Sequence Header Line Not Processed!
L:27 M:201 W: Mandatory field data missing, SeqNo=1, [INFORMATION FOR SEQ ID NO:]
L:27 M:202 E: (16) Value must be an Integer, Data=[]
L:29 M:220 C: Keyword misspelled or invalid format, [(B) TYPE:]
L:30 M:220 C: Keyword misspelled or invalid format, [(C) STRANDEDNESS:]
L:33 M:220 C: Keyword misspelled or invalid format, [(ii) MOLECULE TYPE:]
L:38 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]
L:0 M:200 E: Mandatory Header Field missing, SeqNo=-1, SEQUENCE DESCRIPTION: SEQ ID NO: of (2)
L:38 M:202 E: (16) Value must be an Integer, Data=[]
L:166 M:254 E: No. of Bases conflict, Input:0 Counted:3731 SEQ:-1
L:166 M:320 E: (1) Wrong Nucleic Acid Designator, 10
L:166 M:204 E: No. of Bases differ, LENGTH:Input:3728 Counted:3739 SEQ:-1
L:16 M:203 E: No. of Seq. differs, : Input 2, Counted 1